


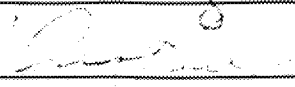

Chemical	TLV	Route of	Acute	Odor	Odor/Visual
Cyanides (as CN)	4.7 ppm ceiling/ 50 ppm skin	Inhalation, ingestion, absorption, contact	Eye and respiratory system irritation; pulmonary edema, skin irritant, dyspnea	1 mg/m <sup>3</sup> (poor warning)	White granular or crystalline solids with a faint almond like odor
Dibenzofuran	none	Inhalation, ingestion	Symptoms unknown, but considered toxic	N/A	Colorless crystalline solid used as a pesticide and in organic synthesis
Ethylbenzene	100 ppm/ 800 ppm	Inhalation, ingestion, contact	Eye and mucous membrane irritation, headaches, dermatitis	0.6 ppm odor 140 ppm irritation	Colorless liquid with pungent aromatic odor
Ethylene Glycol	50 ppm ceiling	Inhalation, ingestion, contact	Eye, skin, and respiratory tract irritation; nausea, dizziness	25 ppm	Clear, colorless, odorless, syrupy liquid with sweet taste
Hydrochloric acid	5 ppm ceiling/ 50 ppm	Inhalation, ingestion, contact	Nose and throat inflammation, coughing; burns throat, eyes, and skin	1 ppm	Colorless gas with pungent odor; colorless to slightly yellow liquid
Lead compounds	0.05 mg/m <sup>3</sup> PEL/ 100 mg/m <sup>3</sup>	Inhalation, ingestion, contact	Weakness, insomnia, facial pallor, abdominal pain, colic, paralysis, of wrist/ankles, flu-like symptoms, hypotension	N/A	Heavy, ductile soft gray solid
Manganese compounds	0.2 mg/m <sup>3</sup> / 500 mg/m <sup>3</sup>	Inhalation, ingestion	Parkinson's; insomnia, mental confusion; metal fume fever, dry throat, cough, tight chest, flu-like fever; low back pain; vomiting; fatigue	None	A lustrous brittle, silvery solid
Methanol	200 ppm/ 6,000 ppm (skin)	Inhalation, ingestion, absorption, contact	Eye irritation; headache, drowsiness, lightheadedness, nausea, vomiting; visual disturbance, blindness	160 ppm	Colorless liquid with a characteristic pungent odor
Naphthalene	10 ppm/ 250 ppm	Inhalation, ingestion, absorption, contact	Eye irritation, headaches	0.038 ppm	Colorless to brown crystals with an odor of mothballs
Phenol	5 ppm/ 250 ppm skin	Inhalation, ingestion, absorption, contact	Irritate eyes, nose, throat; anorexia, low weight; weak, muscle ache, pain; dark urine	0.06 ppm	Colorless to light-pink, crystalline solid with a sweet, acrid odor
Sulfuric Acid	1 mg/m <sup>3</sup>	Inhalation, ingestion, contact	Eye, nose, throat irritation; burns eyes and skin	0.15 ppm	Colorless to dark brown, oily liquid

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### Approvals

This site HASP has been reviewed and constitutes the minimum anticipated safety requirements for personnel engaged in field activities at this project site. However, the Project Leader has the authority to change these requirements, based upon the conditions present at the site.

Approved by:

24. Project Leader:  Date: 12/5/07
25. Branch Chief:  Date: 12/10/07
26. Health & Safety Officer:  Date: 12/10/07

SITEHASP.SAF: 03/94